)	Approved For R						
LOCKHEED AIRCRAFT CORP.			INEERING STUDY	X X	LAC	- 69 *	
DATE	2-17-60	AFF	ECTS:	wspo 📗	PRO	DJECT X	
	OF MAJOR COMPONENT	1	OWEST SUBASSEM	BLY	PART NO. &	MODEL (	OR TYPE
TITLE O	F PROPOSAL :	IRCE HOSE A	ND ELECTRIC W	IRING ASSE	( REPLA	CEMENT	
NATURE	OF PROPOSAL:						
		See	PAGE 2				
		<b>2</b>					/
* <b>T</b>	HIS CHANGE PROPOSAL C	ANCELS AND	REPLACES LAC-	40 FOR CUS	OMER 1 OF	IIY.	
	LAC-40 NOW APPLIES TO	**					
	LAC-40 NON APPLIES TO	COSTONER A	0. 2 GIM)				
						<u></u>	
REASON	FOR PROPOSAL:	2000年1月1日				s gringer	
to t	azard exists upon eje the face piece. This il the emergency face is possible that, whe	could caus heat wires n the emerg	e the pilot's break or pul ency face heat	head to be l away from t wires con	pulled d the face se loose f	ownward piece.	
to t	the face piece. This	could caus heat wires n the emerg the attachin n oxygen lea	e the pilot's break or pullency face heating studs may hak.	head to be laway from twires com be loosened	pulled d the face se loose f	ownward piece.	
to t	the face piece. This il the emergency face is possible that, when piece on ejection,	could caus heat wires n the emerg the attachin n oxygen lea	e the pilot's break or pull ency face heat ng studs may h	head to be laway from twires com be loosened	pulled d the face se loose f	ownward piece.	
to to the	the face piece. This il the emergency face is possible that, when piece on ejection,	could caus heat wires n the emerg the attachin n oxygen le	e the pilot's break or pull ency face hear ng studs may h ak.	head to be laway from twires com be loosened	e pulled d the face e loose f or withd	ownward piece. rom the rawn fro	<b></b>
to to the	the face piece. This il the emergency face is possible that, when piece on ejection, face piece causing a	could caus heat wires in the emergi the attachin in oxygen les	e the pilot's break or pullency face heating studs may hak.  Approx. \$500	head to be laway from twires com be loosened	e pulled d the face e loose f or withd	ownward piece. rom the rawn fro	<b></b>
to to the unt:	the face piece. This il the emergency face is possible that, whe piece on ejection, face piece causing a	could caus heat wires n the emerge the attachin n oxygen les  INVOLVED:	e the pilot's break or pullency face heating studs may hak.  Approx. \$500	head to be laway from twires com be loosened	the face to loose for withd	ownward piece. rom the rawn fro	<b></b>
to to the literature of the ES	the face piece. This il the emergency face is possible that, when piece on ejection, face piece causing a STIMATED COST AND TIME ADDITIONAL FUNDING REQUESTIONAL FUNDING REQUESTI	could caus heat wires in the emerging the attaching oxygen less in	e the pilot's break or pullency face heating studs may hak.  Approx. \$500 (SP-1918)	head to be away from twires compe loosened	the face to loose for withd	ownward piece. rom the rawn fro	<b></b>
ES A	the face piece. This il the emergency face is possible that, when piece on ejection, face piece causing a STIMATED COST AND TIME ADDITIONAL FUNDING REQUIREMENTS.	could caus heat wires in the emerging the attaching oxygen less in	e the pilot's break or pullency face heating studs may hak.  Approx. \$500 e (SP-1918)	head to be away from twires compe loosened	the face to loose for withd	ownward piece. rom the rawn fro	<b></b>
ES A	the face piece. This il the emergency face is possible that, when piece on ejection, face piece causing a stimated cost and time additional funding requirements. DDITIONAL FUNDING REQUIRECTED BY PROPOSAL:  MISSION PERFORM. OPER PROPOSAL:	could caus heat wires in the emerging the attaching oxygen less than the emerging oxygen less th	e the pilot's break or pullency face heating studs may hak.  Approx. \$500 (SP-1918)  Approx. \$260.  SP-1917 (Nor Weight & SUPP	head to be l away from t wires com the loosened  0.00 (WAS  0.00 per Kit the)	service	ownward piece. rom the rawn fro	MAINTE- NANCE
to to the lit is face the ES A	the face piece. This il the emergency face is possible that, when piece on ejection, face piece causing a stimated cost and time additional funding requestimated cost for kits additional funding requestimated by proposal:  MISSION PERFORM. OPER	could caus heat wires in the emerging the attaching oxygen less than oxyge	Approx. \$500 e (SP-1918)  Approx. \$260.  SP-1917 (Nor	head to be l away from t wires com the loosened  0.00 (WAS  0.00 per Kit the)	service	ownward piece. rom the rawn fro	MAINTE-
ES A TEMS A SAFETY	the face piece. This il the emergency face is possible that, when piece on ejection, face piece causing a stimated cost and time additional funding requirements. DDITIONAL FUNDING REQUIRECTED BY PROPOSAL:  MISSION PERFORM. OPER PROPOSAL:	could caus heat wires in the emerging the attaching converse leading to the converse leading to the converse leading could be conversed to the could be conversed to the could be could	e the pilot's break or pull ency face heating studs may hak.  Approx. \$500 e (SP-1918)  Approx. \$260. SP-1917 (Nor Weight & BALANCE EQUIP.	head to be l away from t wires com the loosened  0.00 (WAS  0.00 per Kit the)	spulled do the face the loose for withd	piece. rom the rawn fro	MAINTE- NANCE MANUAL
ES A TEMS A SAFETY  EST. MA	the face piece. This it the emergency face it the emergency face is possible that, where piece on ejection, face piece causing a stimated cost and time additional funding requirements. Stimated cost for kits additional funding requirements of the proposal:    Mission   Perform   Open fife. Tiveness   Perform   Open fife. Tiveness   Open fife. Tivenes	could caus heat wires in the emerging the attaching converse leading to the converse leading to the converse leading could be conversed to the could be conversed to the could be could	e the pilot's break or pullency face heating studs may hak.  Approx. \$500 (SP-1918)  Approx. \$260. SP-1917 (Nor Weight & SUPPEQUIP EQUIP	head to be a way from twires combe loosened to loosene	spulled do the face the loose for withd	piece. rom the rawn fro  flight MANUAL  X	MAINTE- NANCE MANUAL
ES A TEMS A SAFETY  EST. MA	the face piece. This il the emergency face is possible that, where piece on ejection, face piece causing a stimated cost and time additional funding requestional funding request	could caus heat wires in the emerging the attaching converse leading to the converse leading to the converse leading could be conversed to the could be conversed to the could be could	e the pilot's break or pullency face heating studs may hak.  Approx. \$500 (SP-1918)  Approx. \$260. SP-1917 (Nor Weight & SUPPEQUIP EQUIP	head to be l away from t wires com the loosened  0.00 (WAS  0.00 per Kit the)  S & MAINTE- NANCE PROCEDUR  8 Hrs./S	spulled dathe face to loose for withd	piece. rom the rawn fro  flight MANUAL  X	MAINTE- NANCE MANUAL
TEMS A SAFETY  SOURCE	the face piece. This il the emergency face is possible that, where piece on ejection, face piece causing a state of the piece of ejection, face piece causing a state of the piece of t	could caus heat wires in the emerging the attaching oxygen less than oxyge	e the pilot's break or pullency face heating studs may hak.  Approx. \$500 (SP-1918)  Approx. \$260. SP-1917 (Nor Weight & SUPPEQUIP EQUIP	head to be l away from t wires com the loosened  0.00 (WAS  0.00 per Kit the)  S & MAINTE- NANCE PROCEDUR  8 Hrs./S	spulled dathe face to loose for withd	piece. rom the rawn fro  flight MANUAL  X	MAINTE- NANCE MANUAL X
TEMS A SAFETY  SOURCE	STIMATED COST AND TIME ADDITIONAL FUNDING REQUISIONAL FUNDING REQU	could caus heat wires in the emerging the attaching oxygen less than oxyge	e the pilot's break or pull ency face heating studs may hak.  Approx. \$500 e (SP-1918)  Approx. \$260 suppose SP-1917 (Nor Weight & BALANCE EQUIP AVAILABIL	head to be l away from t wires com the loosened  0.00 (WAS  0.00 per Kit the)  S & MAINTE- NANCE PROCEDUR  8 Hrs./S	spulled dathe face to loose for withd	piece. rom the rawn fro  flight MANUAL  X	MAINTE- NANCE MANUAL
TEMS A SAFETY  EST. MA SOURCE	STIMATED COST AND TIME ADDITIONAL FUNDING REQUISIONAL FUNDING REQU	could caus heat wires in the emerging the attaching oxygen less than oxyge	e the pilot's break or pull ency face heating studs may hak.  Approx. \$500 e (SP-1918)  Approx. \$260 suppose SP-1917 (Nor Weight & BALANCE EQUIP AVAILABIL	head to be away from twires combe loosened to loosened	spulled dathe face to loose for withd	piece. rom the rawn fro  flight MANUAL  X	MAINTE- NANCE MANUAL X

SP-E-1A

PAGE 1 OF 5 MIN

## NATURE OF PROPOSAL:

- (Study) 1. Design and develop a new face piece hose and wiring assembly which contains all the wires (9) that are required for the face piece. The normal heat wires will have removable connections at the face piece so that emergency face heat may be used independent of the normal circuit which may be shorted. The emergency face heat will be controlled by the existing manual circuit breaker.
  - 2. Procure and evaluate prototype face piece hose and wiring assembly.

## (Change Proposal) SEE FIG. I ATTACHED

- Provide a new face piece hose and wiring assembly which includes all required face piece wiring and has a single nine pin connector.
- Provide a breaksway electrical connector on the side of the seat that will separate on ejection without putting a load on the face piece wires.
- 3. Revise aircraft circuitry to accomodate 1 and 2 above.
- 4. Remove all wiring to and within the Q-207 seat pack.
- 5. Provide wiring harness adapters that adapt the Al3A mask to the system described above.

- 6. Provide a wiring adapter that will adapt the "old style" face piece wiring to an airplane that has had the circuitry and electrical disconnect installed.
- 7. Prepare and issue Service Bulletins and fabricate appropriate aircraft provisioning kits.

## MOTE:

- 1. This change is compatible with the Q-270 seat pack.
- 2. It is not proposed to supply a wiring adapter that will adapt the new face piece wiring to an unmodified airplane, as it is felt that the airplanes will be modified before the new face piece hose and wiring is available.
- 3. The communications receptacle on the face piece hose will be moved to the lower end in order to use up some of the slack in the communication wires between the receptacle and the helmet.

## NEW HOSES FOR FACE PLATES (See Page 5 for Drawing)

FIG. A & D New Hose \$51.95 ea.

FIG. B & C New Hose \$21.10 ca.

FIG. E Connector (9 point) 1 Req. )

Plug (Note for U174/U) 1 Req. ) Approx. \$20.00

Wiring

See ammendment attacked Revision "a"

